

WHAT IS CLAIMED IS:

1. A composition, comprising:
from about 0.01 to about 5 percent by weight of hyaluronic acid, or a
5 pharmaceutically acceptable salt thereof, having a molecular weight from about 1.6 and 2.2
million daltons;
from about 0.04 to about 15% by weight of a K60 to K100 polyvinylpyrrolidone;
and
from about 86 to about 98% water,
10 wherein the viscosity of the composition is from about 50 to about 500 centipoise.
2. The composition of claim 1, wherein the polyvinylpyrrolidone is from about
K85 to about K95 and is from about 3 to about 10% by weight of the composition.
- 15 3. The composition of claim 2, wherein the polyvinylpyrrolidone is from about
7 to about 10% by weight of the composition.
4. The composition of claim 1, wherein the hyaluronic acid, or the
20 pharmaceutically acceptable salt thereof, is from about 1.8 to about 2.0 million daltons, and
from about 0.01 to about 2% by weight of the composition, and wherein the viscosity of the
composition is from about 90 to about 1000 centipoise.
5. The composition of claim 4, in the form of a gel.
- 25 6. The composition of claim 3, wherein the hyaluronic acid, or the
pharmaceutically acceptable salt thereof, is from about 1.8 to about 2.0 million daltons and
from about 0.01% to about 2% by weight of the composition, and wherein the viscosity of
the composition is from about 90 to about 1000 centipoise.
- 30 7. The composition of claim 6, in the form of a gel.
8. The composition of claim 1, further comprising a viscosity-increasing agent,
surfactant, stabilizing agent/preservative, flavour, fragrance, sweetening agent, bioadhesive
35 agent, or a co-solubilizer.

9. The composition of claim 8, further comprising a cellulose derivative, acrylic or methacrylic acid polymer or copolymer, ethylene or propylene glycol, polyethoxylated hydrogenated castor oil, EDTA, sodium benzoate, sodium or potassium sorbate, dextrin, sodium saccharin, or aspartame.

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10. The composition of claim 1, further comprising an antibacterial agent, disinfectant agent, antifungal agent, analgesic, anti-inflammatory, emollient, or a local anesthetic.

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11. The composition of claim 1, further comprising glycyrrhetic acid or a pharmaceutically acceptable salt thereof.

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12. A composition comprising:
from about 0.04 to about 5 percent by weight of hyaluronic acid, or a pharmaceutically acceptable salt thereof, with a molecular weight from about 1.6 to about 2.2 million daltons;
from about 0.08 to about 15% by weight of a K60 to K100 polyvinylpyrrolidone;
and
from about 86 to about 98% water,
wherein the viscosity of the composition is from about 50 to about 500 centipoise.

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13. The composition of claim 12, wherein the polyvinylpyrrolidone is from about K85 to about K95, and is from about 6 to about 12% by weight of the composition.

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14. The composition of claim 13, wherein the polyvinylpyrrolidone is from about 8 to about 10% by weight of the composition.

15. The composition of claim 12, wherein the hyaluronic acid, or the pharmaceutically acceptable salt thereof, is from about 1.8 to about 2.0 million daltons and from about 0.04 to about 2% by weight of the composition.

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16. The composition of claim 15, in the form of a gel.

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17. The composition of claim 14, wherein the hyaluronic acid, or the pharmaceutically acceptable salt thereof, is from about 1.8 to about 2.0 million daltons and from about 0.04 to about 2% by weight of the composition.

5 18. The composition of claim 17, in the form of a gel.

19. The composition of claim 12, further comprising a viscosity-increasing agent, surfactant, stabilizing agent/preservative, flavour, fragrance, sweetening agent, bioadhesive agent, or a co-solubilizer.

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20. The composition of claim 19, further comprising a cellulose derivative, acrylic or methacrylic acid polymer or copolymer, ethylene or propylene glycol, polyethoxylated hydrogenated castor oil, EDTA, sodium benzoate, sodium or potassium sorbate, dextrin, sodium saccharin, or aspartame.

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21. The composition of claim 12, further comprising an antibacterial agent, disinfectant agent, antifungal agent, analgesic, anti-inflammatory, emollient, or a local anesthetic.

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22. The composition of claim 12, further comprising glycyrrhetic acid or a pharmaceutically acceptable salt thereof.

23. A flexible packet comprising the composition of claim 12.

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24. The packet of claim 23, being a sealed pouch comprising from about 10 to about 30 milliliters of the composition.

25. A composition comprising hyaluronic acid or a pharmaceutically acceptable salt thereof; glycyrrhetic acid or a pharmaceutically acceptable salt thereof; and polyvinylpyrrolidone.

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26. A flexible packet comprising the composition of claim 25.

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27. The composition of claim 25, further comprising a viscosity-increasing agent, surfactant, stabilizing agent/preservative, flavour, fragrance, sweetening agent, bioadhesive agent, or a co-solubilizer.

28. The composition of claim 27, further comprising a cellulose derivative, acrylic or methacrylic acid polymer or copolymer, ethylene or propylene glycol, polyethoxylated hydrogenated castor oil, EDTA, sodium benzoate, sodium or potassium sorbate, dextrin, sodium saccharin, or aspartame.

29. The composition of claim 25, further comprising an antibacterial agent, disinfectant agent, antifungal agent, analgesic, anti-inflammatory, emollient, or a local anesthetic.

30. A method for treating or preventing inflammation in a patient comprising: administering to a patient in need thereof an effective amount of a composition comprising:

(i) from about 0.01 to about 5 percent by weight of hyaluronic acid, or a pharmaceutically acceptable salt thereof, having a molecular weight from about 1.6 to about 2.2 million daltons;

(ii) from about 0.04 to about 15% by weight of a K60 to K100 polyvinylpyrrolidone; and

(iii) from about 86 to about 98% water, wherein the viscosity of the composition is from about 50 to about 500 centipoise.

31. The method of claim 30, wherein the composition is administered at least twice daily for at least two consecutive days.

32. The method of claim 30, wherein the composition is administered at least three times daily for at least four consecutive days.

33. The method of claim 30, wherein the composition is administered at least three times daily for at least seven consecutive days.

34. The method of claim 30, wherein the composition further comprises a viscosity-increasing agent, surfactant, stabilizing agent/preservative, flavour, fragrance, sweetening agent, bioadhesive agent, or a co-solubilizer.

35. The method of claim 34, wherein the composition further comprises a cellulose derivative, acrylic or methacrylic acid polymer or copolymer, ethylene or propylene glycol, polyethoxylated hydrogenated castor oil, EDTA, sodium benzoate, sodium or potassium sorbate, dextrin, sodium saccharin, or aspartame.

36. The method of claim 30, wherein the composition further comprises an antibacterial agent, disinfectant agent, antifungal agent, analgesic, anti-inflammatory, emollient, or a local anesthetic.

37. The method of claim 30, wherein the administration is by topical application.

38. The method of claim 30, wherein the composition further comprises glycyrrhetic acid or a pharmaceutically acceptable salt thereof.

39. A method for treating or preventing inflammation in a patient, comprising administering to a patient in need thereof an effective amount of a composition comprising hyaluronic acid or a pharmaceutically acceptable salt thereof; glycyrrhetic acid or a pharmaceutically acceptable salt thereof; and polyvinylpyrrolidone.

40. The method of claim 39, wherein the administration is by topical application.

41. The method of claim 39, wherein the composition is administered at least twice daily for at least two consecutive days.

42. The method of claim 39, wherein the composition is administered at least three times daily for at least four consecutive days.

43. The method of claim 39, wherein the composition is administered at least three times daily for at least seven consecutive days.

44. The method of claim 39, wherein the composition further comprises a viscosity-increasing agent, surfactant, stabilizing agent/preservative, flavour, fragrance, sweetening agent, bioadhesive agent, or a co-solubilizer.

5 45. The method of claim 44, wherein the composition further comprises a cellulose derivative, acrylic or methacrylic acid polymer or copolymer, ethylene or propylene glycol, polyethoxylated hydrogenated castor oil, EDTA, sodium benzoate, sodium or potassium sorbate, dextrin, sodium saccharin, or aspartame.

10 46. The method of claim 39, wherein the composition further comprises an antibacterial agent, disinfectant agent, antifungal agent, analgesic, anti-inflammatory, emollient, or a local anesthetic.

15 47. A method for treating or preventing inflammation in the oral cavity of a patient comprising:

having a patient in need thereof gargle an effective amount of a composition comprising:

20 (i) from about 0.01 to about 5 percent by weight of hyaluronic acid, or a pharmaceutically acceptable salt thereof, having a molecular weight from about 1.6 to about 2.2 million daltons;

(ii) from about 0.04 to about 15% by weight of a K60 to K100 polyvinylpyrrolidone; and

25 (iii) from about 86 to about 98% water, wherein the viscosity of the composition is from about 50 to about 500 centipoise.

48. A method for treating or preventing inflammation in the oral cavity of a patient comprising:

30 having a patient in need thereof gargle an effective amount of a composition comprising hyaluronic acid or a pharmaceutically acceptable salt thereof; glycyrrhetic acid or a pharmaceutically acceptable salt thereof; and polyvinylpyrrolidone.

49. The method of claim 47 or 48, wherein the patient gargles the composition at least twice daily for at least two consecutive days.

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50. The method of claim 47 or 48, wherein the patient gargles the composition at least three times daily for at least four consecutive days.

51. The method of claim 47 or 48, wherein the patient gargles the composition at least three times daily for at least seven consecutive days.

52. The method of claim 47, wherein the composition further comprises glycyrrhetic acid or a pharmaceutically acceptable salt thereof.

53. The method of claim 47 or 48, wherein the patient avoids eating or drinking for at least one hour after gargling.

54. A method for treating or preventing mucositis in a patient comprising: administering to a patient in need thereof an effective amount of a composition comprising:

(i) from about 0.01 to about 5 percent by weight of hyaluronic acid, or a pharmaceutically acceptable salt thereof, having a molecular weight from about 1.6 to about 2.2 million daltons;

(ii) from about 0.04 to about 15% by weight of a K60 to K100 polyvinylpyrrolidone; and

(iii) from about 86 to about 98% water, wherein the viscosity of the composition is from about 50 to about 500 centipoise.

55. A method for treating or preventing mucositis in a patient comprising: administering to a patient in need thereof an effective amount of a composition comprising hyaluronic acid or a pharmaceutically acceptable salt thereof; glycyrrhetic acid or a pharmaceutically acceptable salt thereof; and polyvinylpyrrolidone.

56. The method of claim 54 or 55, wherein the composition is administered at least twice daily for at least two consecutive days.

57. The method of claim ~~54~~ or 55, wherein the composition is administered at least three times daily for at least four consecutive days.

58. The method of claim 54 or 55, wherein the composition is administered at least three times daily for at least seven consecutive days.

59. The method of claim 54, wherein the composition further comprises
5 glycyrrhetic acid or a pharmaceutically acceptable salt thereof.

60. A method for treating pain resulting from oral surgery in a patient in need thereof comprising:

10 having a patient in need thereof gargle an effective amount of a composition comprising:

(i) from about 0.01 to about 5 percent by weight of hyaluronic acid, or a pharmaceutically acceptable salt thereof, having a molecular weight from about 1.6 to about 2.2 million daltons;

15 (ii) from about 0.04 to about 15% by weight of a K60 to K100 polyvinylpyrrolidone; and

(iii) from about 86 to about 98% water,
wherein the viscosity of the composition is from about 50 to about 500 centipoise.

61. A method for treating pain resulting from oral surgery in a patient in need thereof comprising:

having a patient in need thereof gargle an effective amount of a composition comprising hyaluronic acid or a pharmaceutically acceptable salt thereof; glycyrrhetic acid or a pharmaceutically acceptable salt thereof; and polyvinylpyrrolidone.

62. The method of claim 60 or 61, wherein the patient gargles the composition at least twice daily for at least two consecutive days.

63. The method of claim 60 or 61, wherein the patient gargles the composition at
30 least three times daily for at least four consecutive days.

64. The method of claim 60 or 61, wherein the patient gargles the composition at least three times daily for at least seven consecutive days.

65. The method of claim 60, wherein the composition further comprises
35 glycyrrhetic acid or a pharmaceutically acceptable salt thereof.